



Installing MacBook Pro 15" Unibody Mid 2009 Microphone

Tools used in this guide

- [1.5 mm Flathead Screwdriver](#) (1)
- [Phillips #00 Screwdriver](#) (1)
- [Spudger](#) (1)
- [T6 Torx Screwdriver](#) (1)

Parts relevant to this guide

- [MacBook Pro 15" Unibody \(Mid 2009/Mid 2010\) Microphone](#) (1)

Use this guide to replace a blown-out microphone.



Step 1 - Lower Case

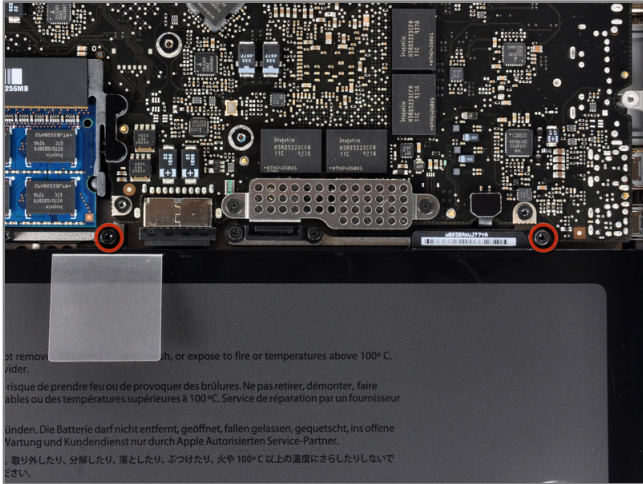
- Remove the following ten screws securing the lower case to the upper case:
 - Seven 3 mm Phillips screws.
 - Three 13.5 mm Phillips screws.



Step 2

- Using both hands, lift the lower case near the vent to pop it off two clips securing it to the upper case.
- Remove the lower case and set it aside.





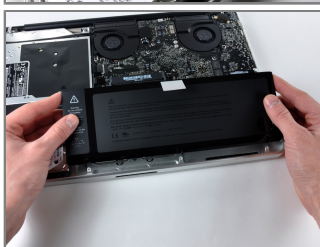
Step 3 - Battery

- Three special five-point Torx screws secure the battery to the upper case.
- Use Apple specialty tool 922-9101 or iFixit's 5-point T6 driver to remove the two exposed five-point Torx security screws along the top edge of the battery.
- A common 1.5 mm flathead screwdriver also works well enough to remove the screws.



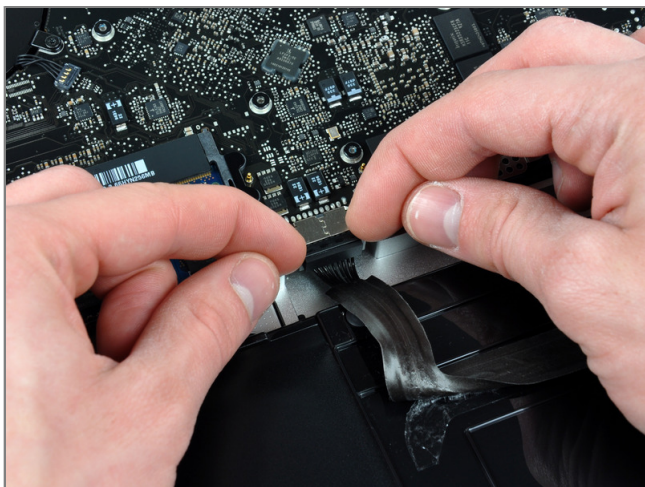
Step 4

- Use the tip of a spudger to bend back the finger of the "Warning: Do not remove the battery" sticker while you remove the five-point Torx security screw hidden underneath.



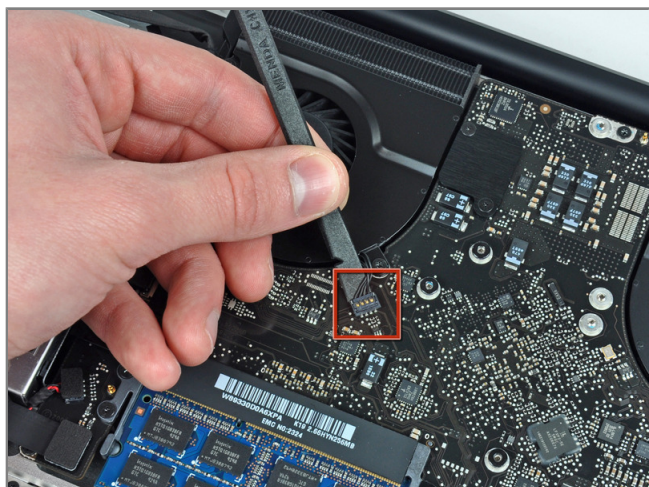
Step 5

- Lift the battery by its plastic pull tab and slide it away from the long edge of the upper case.
- Do not try to completely remove the battery just yet.



Step 6

- Tilt the battery back enough to access the battery cable connector.
- Pull the battery cable connector away from its socket on the logic board and remove the battery from the upper case.



Step 7 - Logic Board

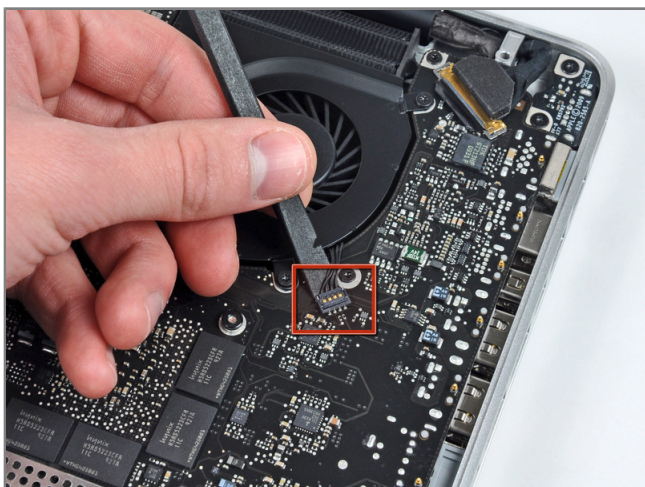
- Use a spudger to pry the fan connector straight up off the logic board.
- Pry up from beneath the wires.



Step 8

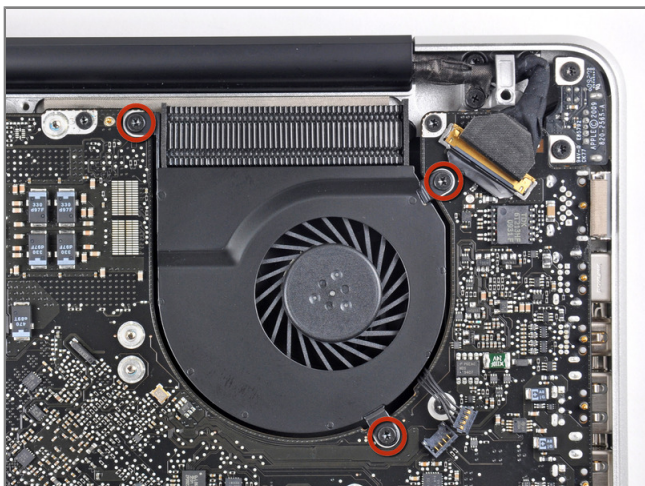
- Remove the three T6 Torx screws securing the left fan to the logic board.
- Lift the fan out of the upper case.





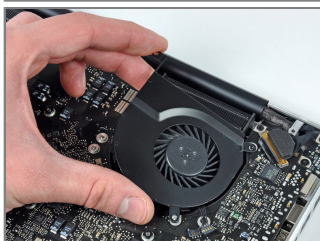
Step 9

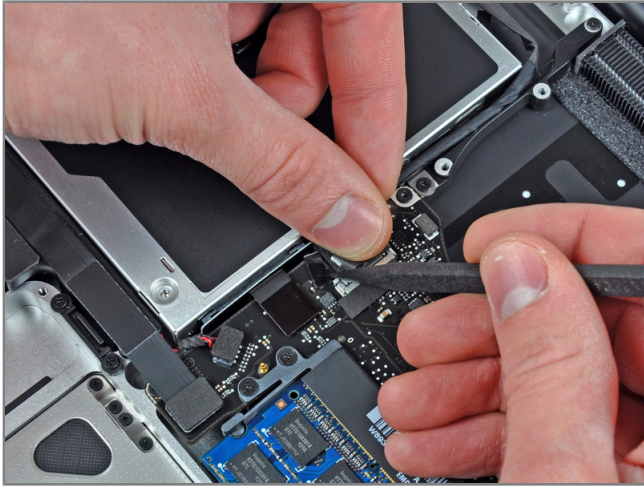
- Use the flat end of a spudger to disconnect the left fan connector from the logic board.
- Pry up from beneath the wires.



Step 10

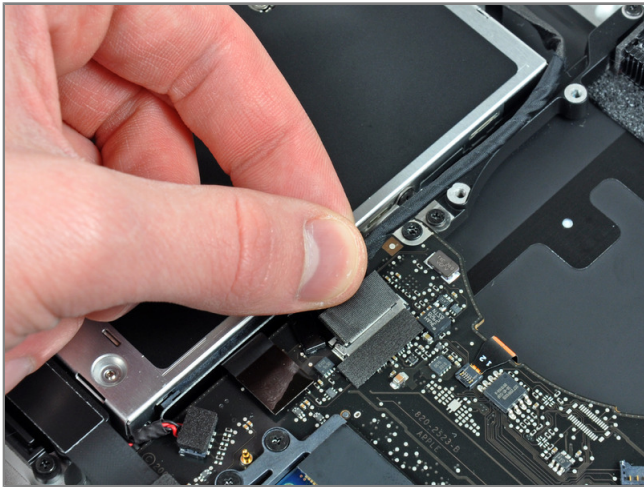
- Remove the three T6 Torx screws securing the left fan to the logic board.
- Lift the left fan out of the upper case.





Step 11

- Apple sticks a small strip of clear plastic with adhesive applied to one side to the logic board behind the camera cable connector to keep it in its socket. When moving it out of the way, be sure not to break any surface-mount components off the logic board.
- Hold the end of the cable retainer down with one finger while you use the tip of a spudger to slightly lift the other end and rotate it away from the camera cable connector.



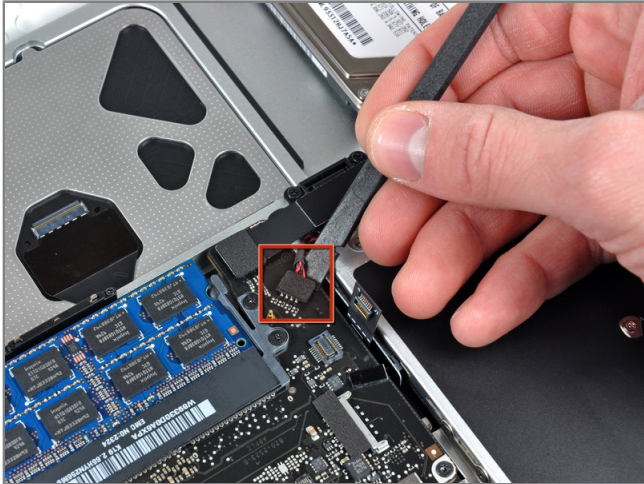
Step 12

- Disconnect the camera cable by pulling the male end straight away from its socket.
- Pull the connector parallel to the face of the logic board, not straight up.



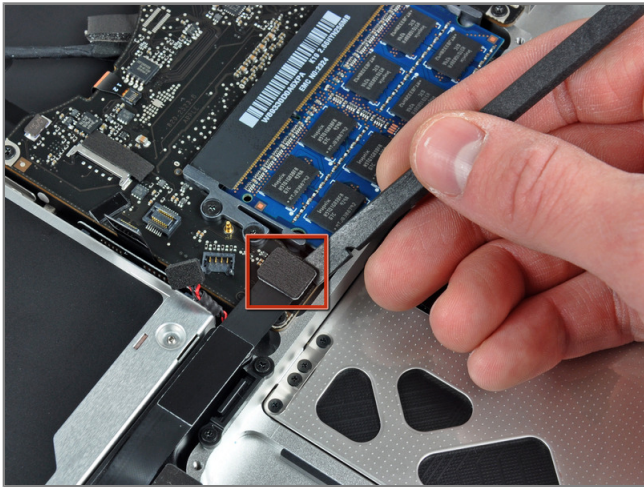
Step 13

- Use the flat end of a spudger to pry the optical drive cable connector up off the logic board.



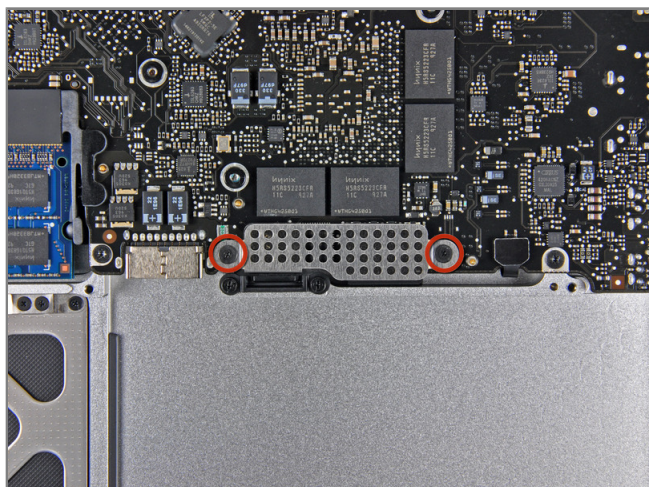
Step 14

- Using the flat end of a spudger, pry the subwoofer connector straight up off the logic board.



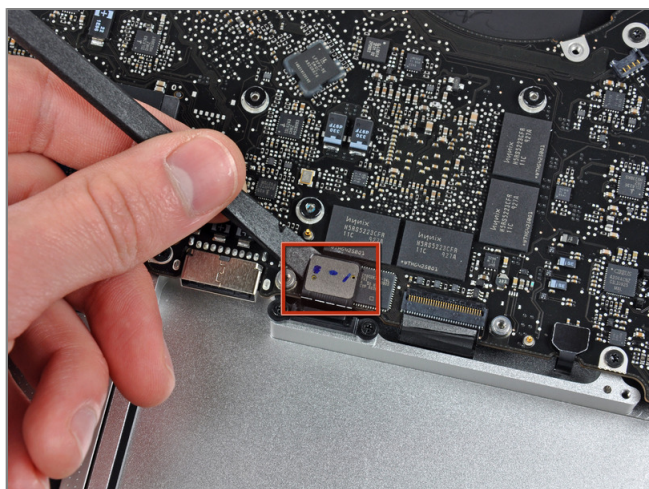
Step 15

- Use the flat end of a spudger to pry the hard drive/IR sensor cable connector up off the logic board.



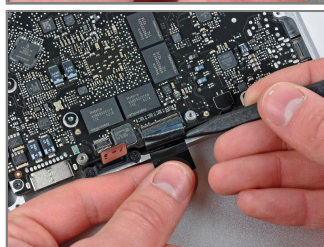
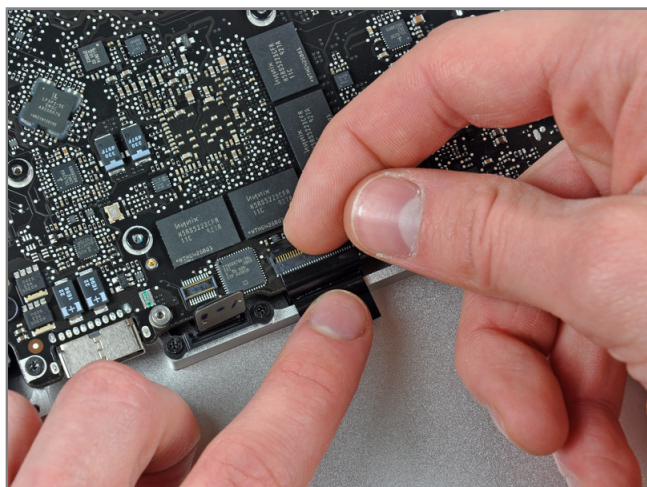
Step 16

- Remove the two 1.5 mm Phillips screws securing the cable cover to the logic board.
- Lift the cable cover out of the upper case.



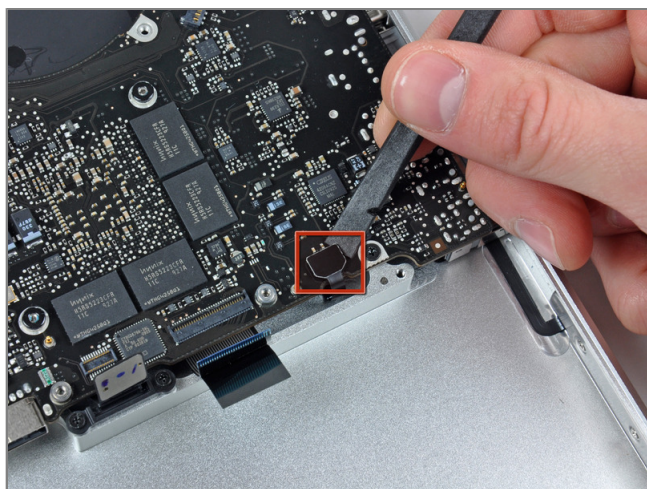
Step 17

- Use a spudger to pry the trackpad flex ribbon cable connector up off the logic board.



Step 18

- Use your fingernail to flip up the locking flap on the ZIF socket for the keyboard ribbon cable.
- Use the tip of a spudger to slide the keyboard ribbon cable out of its socket.



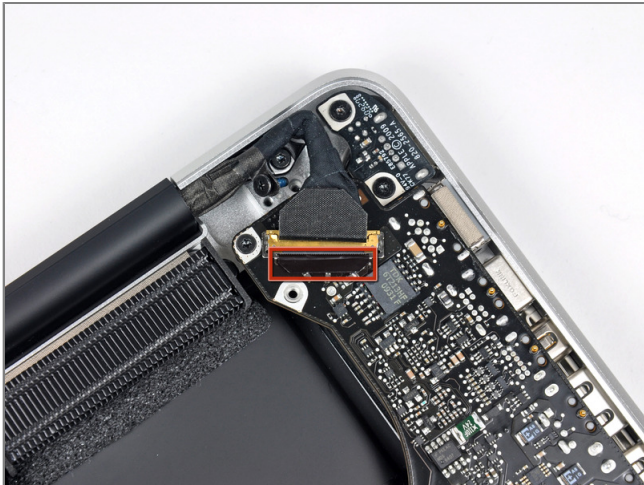
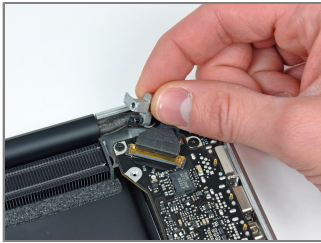
Step 19

- Use a spudger to pry the battery indicator ribbon cable connector up off the logic board.



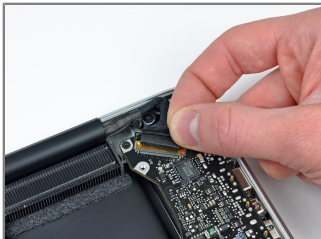
Step 20

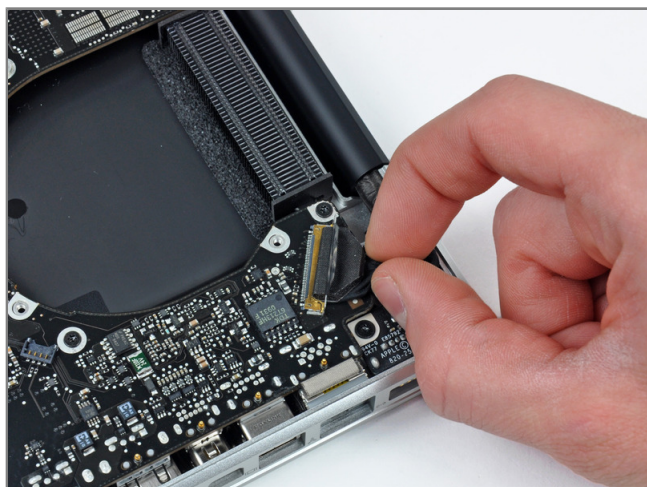
- Remove the single 7 mm Phillips screw securing the display data cable retainer to the upper case.
- This screw may remain captive in the display data cable ground loop. If replacing the display, be sure to transfer this screw to the new unit.
- Remove the display data cable retainer from the upper case.



Step 21

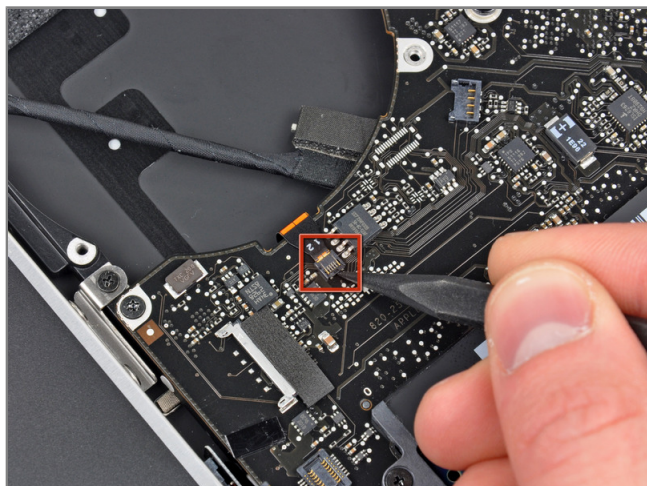
- Grab the plastic pull tab secured to the display data cable lock and rotate it toward the DC-in side of the computer.





Step 22

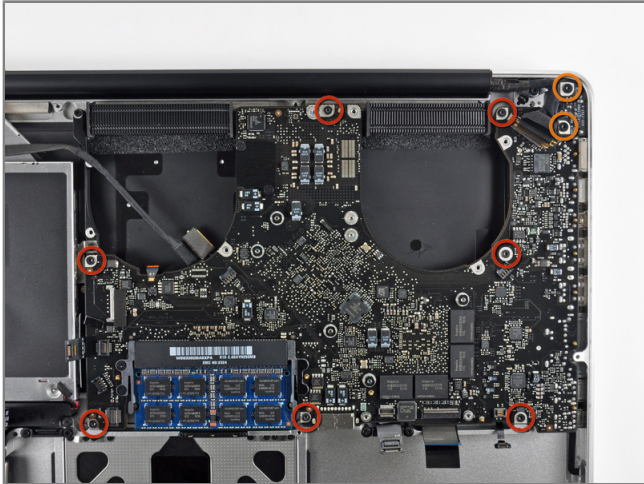
- Pull the display data cable connector straight away from its socket.
- Make sure to pull the connector parallel to the face of the logic board, not straight up from its socket.



Step 23

- Using the tip of a spudger, flip up the keyboard backlight ribbon cable retaining flap.
- Pull the keyboard backlight ribbon cable straight out of its socket.





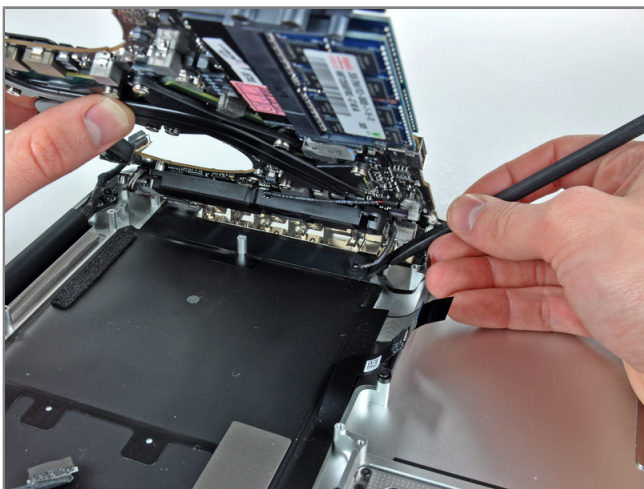
Step 24

- Remove the following screws:
 - Seven 3.3 mm T6 Torx screws securing the logic board to the upper case.
 - Two 8 mm Phillips screws securing the DC-In board to the upper case.
- Do not remove the logic board yet! There are components on the underside of the logic board attached to the the upper case that must first be disconnected.



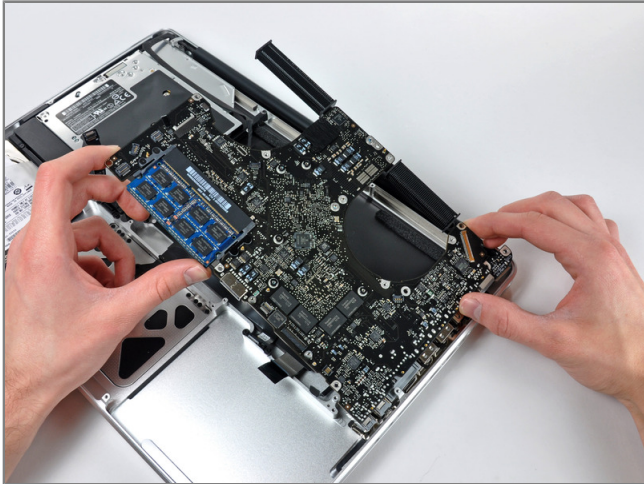
Step 25

- Carefully lift the logic board assembly from the left side and work it out of the upper case, minding the port side that may get caught during removal.
- Do not entirely remove the logic board yet!



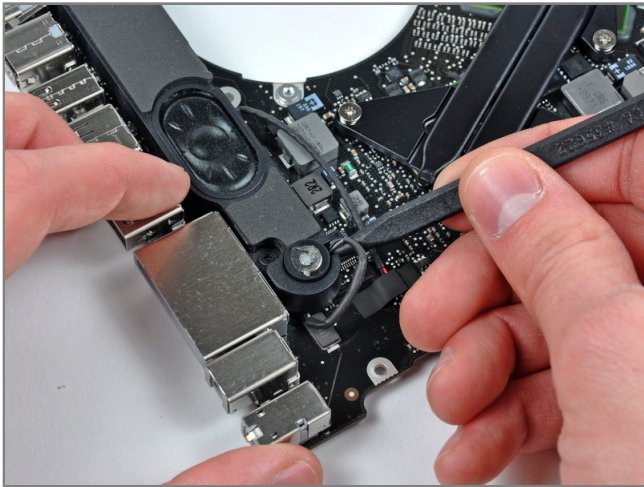
Step 26

- Lift the logic board enough to gain clearance and use a spudger to pry the microphone up off the upper case.



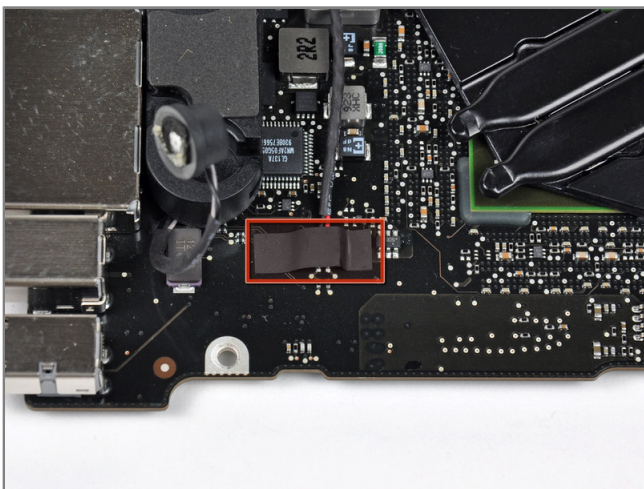
Step 27

- Slide the logic board away from the port openings and lift the assembly out of the upper case.
- Before reinstalling the logic board, it is easiest to press the microphone down into its housing in the left speaker to keep it in place.



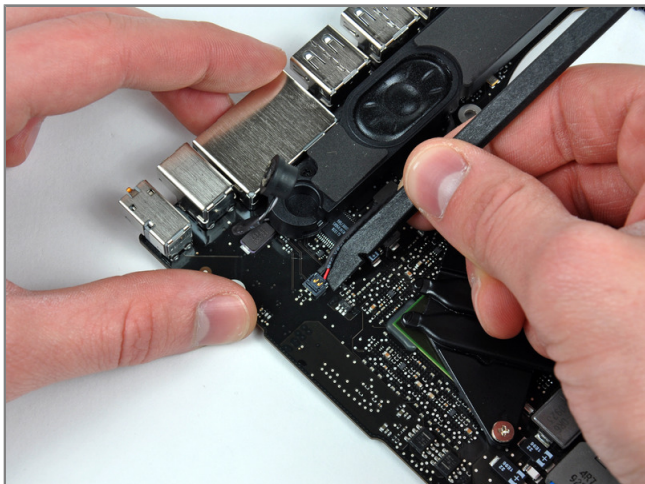
Step 28 - Left Speaker

- If your microphone is still inserted into its void in the left speaker housing, use the tip of a spudger to lift it out.



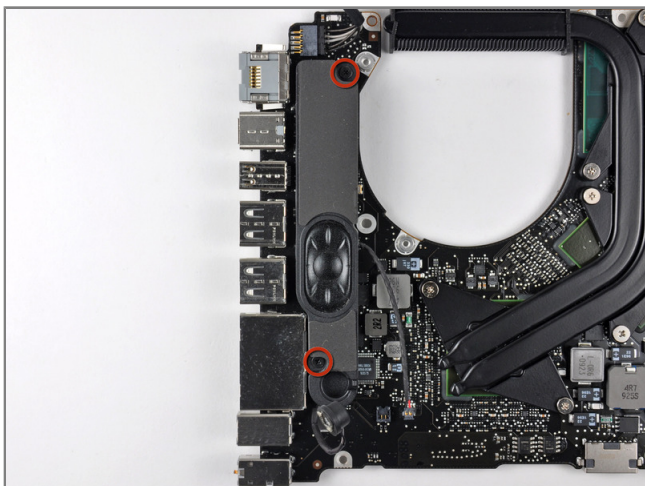
Step 29

- Remove the small strip of tape covering the left speaker connector.



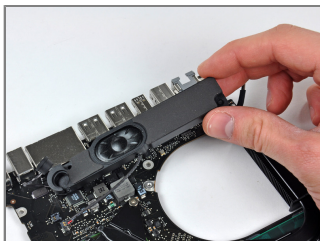
Step 30

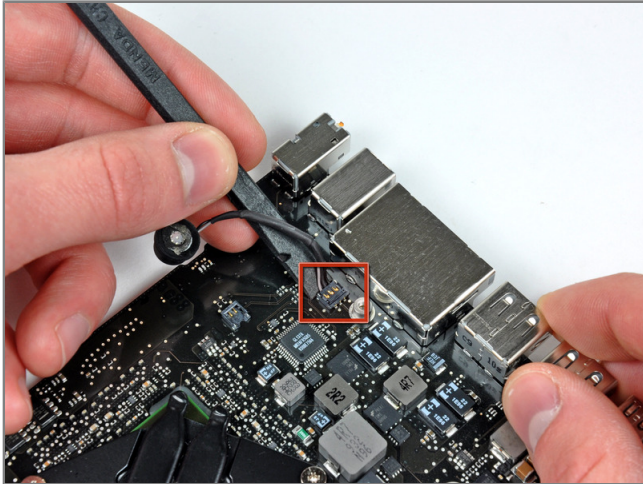
- Use the flat end of a spudger to pry the left speaker connector off its socket on the logic board.
- Pry up from beneath the wires.



Step 31

- Remove the two 5 mm Phillips screws securing the left speaker to the logic board.
- Lift the left speaker off the logic board.





Step 32 - Microphone

- Use the flat end of a spudger to pry the microphone cable connector up off its socket on the logic board.
- Pry up from beneath the wires.



To reassemble your device, follow these instructions in reverse order.

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